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DESCRIPTORS: *Ion sources, *High frequency, *Pulse
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3 figs.

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Another trans. is available from OTS \$1.10 as
AD-264 067, July 61, 9p.

DESCRIPTIONS: *Control systems, *Linear systems,
Functions, Theory, Differential equations, Integral
equations, Perturbation theory.

This paper is concerned with the problem proposed
by Afanasyev in regard to the stability of a set of non-
linear differential equations. Conditions for stability
are hypothesized by making a linear analogy to the
original non-linear system. The validity of these
(Mathematics, IT, v. 7, no. 9)

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62-10146

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I. Malkin, I. G.

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Office of Technical Services

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THE STABILITY OF AUTOMATIC REGULATION
SYSTEMS (Ustoichivost' Sistem Avtomaticheskogo
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The stability problem of the system of type $(dx_s/dt) = p_{s1}x_1 + \dots + p_{sn}x_n + P_s(x_1, \dots, x_n)$, where $s = 1, 2, \dots, n$, is considered. For given conditions of $P_s(x_1, \dots, x_n)$ these functions satisfy, in the region $|x_s| \leq A$, the inequalities $|P_s(x_1, \dots, x_n)| < Q(|x_1| + \dots + |x_n|)$ where Q is a positive constant. The maximum values of this constant are found for which the equilibrium is asymptotically stable in the Lyapunov sense for any P_s function that satisfies the above conditions, and the permissible range of initial deviations are determined. A theorem in which these quantities are assessed is given: it is expressed directly in (Mathematics, TT, v. 5, no. 8) (over)

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